U. S. F. C.
Records.

Nos. 961-1028.

1881.

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 961 to 1028

1884.
2.
Copy.

U. S. Fish Comm.

Dredging Records.

Nos. 961-1028.

1884.

TEMPERATURE RECORD.

Instrument used, Trawl with bridles.

Current number of observation, 961.

Date, Aug. 26. 1881.

Locality, Buzzards Bay.

Bearings, Nyes Neck, N. E. 3/4 E, 2 3/4 m.

Time of day, 1.52 Pm; of tide, Low.

State of sky, Clear.

Temperature of air, 71.5

" surface of water, 69.

" at depth of fathoms,

" of bottom, 68.

Depth, in fathoms, 8.

Nature of bottom, bl. mud.

Direction of ~~surface~~ current, S. W. force 5.

Force of ~~surface~~ current, W. by S. 3/4 m

Direction of bottom current,

Force of bottom current,

Name of vessel, Fish Hawk.

To what service attached, U. S. Fish Commission

Name and rank of commanding officer, Z. L. Tanner Lieut, U.S. Navy.

Name and position of observer, Prof A. P. Chapin Warsaw N.Y.

REMARKS.

√

TEMPERATURE RECORD.

Instrument used, Trawl with Casing.

Current number of observation, 962.

Date, Aug. 26. 1884.

Locality, Buzzard Bay,

Bearings, Hoepacket 2d. N. E. 3/4 E. 1 1/4 m.

Time of day, 3.10 P.M.; of tide, flood.

State of sky, clear.

Temperature of air, 71.

" surface of water, 68

" at depth of fathoms,

" of bottom, 66.

Depth, in fathoms, 8.

Nature of bottom, blue mud sand.

Direction of surface current, and S. W. Force 6.

Force of surface current, Drift W. by W. 1/2 m.

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, Dredge

Current number of observation, 963.

Date, Aug. 26. 1881.

Locality, Buzzards Bay,

Bearings, Woolpicket Id. S. E. ½ S. 1 mile

Time of day, 3.40 P.M. of tide, flood.

State of sky, clear

Temperature of air, 70.

" surface of water, 68.

" at depth of fathoms,

" of bottom, 66.

Depth, in fathoms, 8 1/2

Nature of bottom, brown mud

Direction of ~~surface~~ current, S. W. force 6.

Force of ~~surface~~ current, W. S. W. 3/4 m.

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

V

TEMPERATURE RECORD.

Instrument used, Dredge

Current number of observation, 964.

Date, Aug. 30. 1881.

Locality, Crab Ledge.

Bearings, Chatham Light N. W. 1/2 W. 5 miles.

Time of day, 7.50 ; of tide, ebb.

State of sky, Clear.

Temperature of air, 65.

" surface of water, 61.

" at depth of 5 fathoms, 59.

" of bottom, 55.

Depth, in fathoms, 10.

Nature of bottom, Sandy gravel.

Direction of ~~surface current~~ wind, S. force 4.

~~Force of surface current~~ Light, E. S. E. 1/8 m

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

964.

REMARKS.

Sand and fine gravel, Starfish. Shrimps.

√

TEMPERATURE RECORD.

Instrument used, Negretti

Current number of observation, 965

Date, Aug. 30, 1854.

Locality, Crab Ledge.

Bearings, Chatham Light

N. W. by W. 6 miles.

Time of day, 8, 15 ; of tide, ebb,

State of sky, Clear

Temperature of air, 65,

" surface of water, 61

" at depth of 5 fathoms, 59

" of bottom, 53

Depth, in fathoms, 15,

Nature of bottom, Sand & gravel

Direction of ~~surface~~ current, wind S. force 4

Force of ~~surface~~ current, S. E. by E. 1/2 m

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

96

REMARKS.

Similar to last

√

TEMPERATURE RECORD.

Instrument used, Dredge

Current number of observation, 966

Date. Aug. 30, 1881. Cont Lead

Locality. Chatham Light

Bearings, N. W. by W. 1/4 W. 6 1/4 m,

Time of day, 8, 40 am; of tide, ebb.

State of sky, Clear.

Temperature of air, 65,

" surface of water, 61.

" at depth of 10 fathoms, 54.

" of bottom, 52,

Depth, in fathoms, 16,

Nature of bottom, Sand, small stones.

Direction of ~~surface current~~ wind, S. W. force 4.

~~Force of surface current~~ Fresh

Direction of bottom current, S. E 1/8 m

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Similar to last.

TEMPERATURE RECORD.

Instrument used, Dredging

Current number of observation, 967

Date, Aug. 30, 1884.

Locality, Crab Ledge

Bearings, Thacher Lights

N. W. by W. 1/4 W. 6 3/4 m.

Time of day, 8.56 a.m. ; of tide, ebb.

State of sky, Clear

Temperature of air, 66.

" surface of water, 61.

" at depth of 5 fathoms, 61.

" of bottom, 52.

Depth, in fathoms, 16.

Nature of bottom, Sand & rock,

Direction of ~~surface current~~ wind, S. W. Force 4.

~~Force of surface current~~ Drift, S. E. 1/6 m.

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

967.

REMARKS.

No sand came up
a clean hard mat mud
but thick Bryozoan
hydroid Crab. Ascidian
Ophiuroid Rocky, Coral
Stony

√

TEMPERATURE RECORD.

Instrument used. Dredge

Current number of observation. 968

Date. Aug. 30, 1887.

Locality. Crab Ledge

Bearings, Chatham Light-
N. W. by W. 3/4 W. 7/4 nm.

Time of day, 9. ; of tide, ebb,

State of sky, clear

Temperature of air, 66.

" surface of water, 61.5

" at depth of 5 fathoms, 61.

" of bottom, 50.5

Depth, in fathoms, 18

Nature of bottom, Gravel

Direction of ~~surface current~~ wind S. W Force 4

Force of ~~surface current~~ tide, N. W. by W. 1/8 nm.

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

London 1960

✓

TEMPERATURE RECORD.

Instrument used, Sounding Machine

Current number of observation, 969

Date, Aug. 30, 1884.

Locality, Cruise to Georges.

Bearings, Chatham Light House N. W. by W. 3/4 W. 7 miles

Time of day, 9,10 am; of tide,

State of sky, Clear

Temperature of air, 66.

" surface of water, 61.5

" at depth of fathoms,

" of bottom, 51.

Depth, in fathoms, 18,

Nature of bottom, Sand, Stones.

Direction of surface current, S.W. Force 4.

Force of surface current, S.E. 1/2 mile

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Division Court

√

TEMPERATURE RECORD.

Instrument used, Sigsbee

Current number of observation, 970

Date, Aug. 30. 1881.

Locality, Crab Ledge

Bearings, Chatham Lt. Ho. N. N. W. 3/4 W. 6 m.

Time of day, 9.43 a.m.; of tide,

State of sky, Clear

Temperature of air, 67.

" surface of water, 61.

" at depth of fathoms,

" of bottom, 54.

Depth, in fathoms, 13.

Nature of bottom, Sand pebbles & shells

Direction of ~~surface current~~ wind S. W. force 4.

Force of ~~surface~~ current, light W. N. W. 1/8 m.

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Russian Blue.

TEMPERATURE RECORD.

Instrument used, Dredge

Current number of observation, 971

Date, Aug. 30, 1854

Locality, Crab Ledge

Bearings, Chatham Light House
W. 3/4 N. 4 1/4 m.

Time of day, 10.05 a.m. of tide,

State of sky, Clear.

Temperature of air, 67.

" surface of water, 61.5

" at depth of fathoms,

" of bottom, 54.

Depth, in fathoms, 11.

Nature of bottom, Sand pebble Gravel

Direction of surface current, Wind S.W. force 4

Force of surface current, S.S.E. 1/4 m.

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

V

TEMPERATURE RECORD.

Instrument used, Dredge.

Current number of observation, 972

Date, Aug. 20. 1884.

Locality, Crab Ledge.

Bearings, Chatham Light N.
N. W. by W. 7/8 W. 7/8 miles

Time of day, 10.48 a.m. of tide.

State of sky, Clear.

Temperature of air, 67.

" surface of water, 62

" at depth of fathoms,

" of bottom, 52.

Depth, in fathoms, 16.

Nature of bottom, Gravel, sand, & shells.

Direction of surface current, S. W. force 5.

Force of surface current, Light N. E. 1/8 mile

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

972

REMARKS.

Sand & gravel, very
Rich
Comp'd. acid-ium
Potassium
Sodium Sulphuretum

TEMPERATURE RECORD.

Instrument used, Dredge

Current number of observation, 973

Date, Aug. 20 1851

Locality, off Chatham, Crab Ledge

Bearings, Chatham Light
W. N. W. 6 3/4 nm.

Time of day, 11.10 A.M.; of tide, Low.

State of sky, Clear.

Temperature of air, 67.

" surface of water, 62

" at depth of fathoms.

" of bottom, 51.

Depth, in fathoms, 17.

Nature of bottom, Gravel, Sand, Stones.

Direction of ~~surface current~~, Wind S. W. Force 5

Force of ~~surface current~~, W. S. W. 1/8 nm.

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used. Dredge

Current number of observation, 974

Date. Aug. 30, 1881.

Locality. Off Chatham Cod Ground

Bearings, Chatham Light,
N. N. W. 1/2 W. 6 1/2 m

Time of day, 11,30 m ; of tide, low

State of sky, Clear.

Temperature of air, 67.

" surface of water, 62

" at depth of fathoms,

" of bottom. 51.

Depth, in fathoms, 16.

Nature of bottom, Gravel, Sand, Stones.

Direction of ~~surface~~ current. wind S. W. Force 5.

Force of ~~surface~~ current, W. S. W. 1/8 m

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

V

TEMPERATURE RECORD.

Instrument used, Dredge

Current number of observation, 925

Date, Aug. 30 / 1881.

Locality, Crab Ledge.

Bearings, Chatham Light

W, N, W, 1/4 W. 6 1/4 nm.

Time of day, 11.45 Am; of tide,

State of sky, Clear.

Temperature of air, 68.

" surface of water, 63.

" at depth of fathoms,

" of bottom, 52

Depth, in fathoms, 16.

Nature of bottom, Gravel and stones

Direction of ~~surface~~ current, S. W. force, 5.

~~Force of surface current,~~ Bright E. 1/2 nm

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

V

TEMPERATURE RECORD.

Instrument used, Dredge

Current number of observation, 976

Date. Aug 30, 1889.

Locality. Crab Ledge

Bearings, Chatham Light

W, N. W. ½ W. 6 m.

Time of day, 12 m ; of tide, flood.

State of sky, Clear

Temperature of air, 69.

" surface of water, 63.

" at depth of fathoms,

" of bottom, 52,

Depth, in fathoms, 16.

Nature of bottom, gravel, and shells;

Direction of ~~surface~~ current, S. W. by W.

Force of ~~surface~~ current, S S W 1/2

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, Dredge

Current number of observation, 977

Date, Aug. 30, 1884.

Locality, Crab Ledge.

Bearings, Chatham Light

Time of day, 12.20 P.M.; of tide, flood

State of sky, clear.

Temperature of air, 70.

" surface of water, 64

" at depth of fathoms,

" of bottom, 52.

Depth, in fathoms, 17.

Nature of bottom, sand pebbles. shells

Direction of ~~surface~~ current, S.W. force, 4.

~~Force of surface current~~, Bottle broke 4 miles

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, Dredge

Current number of observation, 978

Date, Aug. 20, 1881.

Locality, Crab Ledge,

Bearings, Chatham Light-
W. N. W. 6 m.

Time of day, 12.30 ; of tide, flood.

State of sky, Clear.

Temperature of air, 70

" surface of water, 64.

" at depth of fathoms,

" of bottom. 52.

Depth, in fathoms, 17.

Nature of bottom, Sand, pebbles, stones.

Direction of ~~surface current~~, S. W

Force of ~~surface current~~, Quite fore. 5

Direction of bottom current, W. by N. 1/2 m.

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, Dredge

Current number of observation, 979

Date, Aug 30, 1851.

Locality, Crab Ledge.

Bearings, Chatham Lights.
W, N. W. 1/4 W. 6 m

Time of day, 12.40 P.M.; of tide,

State of sky, Clear.

Temperature of air, 70.

" surface of water, 64.

" at depth of fathoms,

" of bottom, 52.

Depth, in fathoms, 16.

Nature of bottom, Sand.

Direction of surface current, S.W. Force 5.

Force of surface current, W. by N. 1 Knot

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, Dredge

Current number of observation, 980

Date. Aug. 30. 1881.

Locality, Crab Ledge

Bearings, Chatham Light N. W. by W. 1/4 W. 5 3/4 miles.

Time of day, 1 P.M. ; of tide, low.

State of sky, clear

Temperature of air, 70.

" surface of water, 62

" at depth of fathoms,

" of bottom, 53.

Depth, in fathoms, 14.

Nature of bottom, Sand, stone, pebbles,

Direction of ~~surface current~~ wind S.W. Force 5.

Force of ~~surface current~~ Strong S.W. 115mm

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached.

Name and rank of commanding officer,

Name and position of observer,

980,

REMARKS.

Up to and including Fish haul on and about Crab Ledge, dredging bottom everywhere in some places moderately thick in others mostly Lava 20,

Soundings under 20

TEMPERATURE RECORD.

Instrument used, Frank

Current number of observation, 984.

Date, Aug. 30, 1884.

Locality, Off Chatham.

Bearings, Chatham Light W. N. W. 16 m.

Time of day, 2.10 P.M.; of tide, flood

State of sky, clear.

Temperature of air, 65.

" surface of water, 63.5

" at depth of 5 fathoms, 62

" of bottom, 49

Depth, in fathoms, 41. = 43

Nature of bottom, S. gravel.

Direction of ~~surface current~~ wind, S. W. Force 5.

~~Force of surface current~~ Brisk, S. 1/4 W. 1 1/2 m.

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

V

TEMPERATURE RECORD.

Instrument used, Trowl.

Current number of observation, 982

Date, Aug. 30, 1887.

Locality, Off Chatham

Bearings, Lat. 41° 36' N.

Long. 69° 35' W

Time of day, 2.45 ; of tide, Ebb

State of sky, Clear.

Temperature of air, 65°

" surface of water, 63.5

" at depth of 5 fathoms, 60

" of bottom, 41.5

Depth, in fathoms, 40, = 42

Nature of bottom, Sand + gravel.

Direction of ~~surface current~~ wind, S.W. force 7.

Force of ~~surface current~~ Drift, S.S.W. 1½ m

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 983.

Date, Aug. 30, 1881.

Locality, Lat 41, 30 N, Off Hatteras

Bearings, Long. 69° 32' 34" W.

Time of day, 3, 23 P.M. of tide, flood.

State of sky, Clear.

Temperature of air, 64.5

" surface of water, 64.

" at depth of 5 fathoms, 62.

" of bottom, 42.

Depth, in fathoms, 35. = 36

Nature of bottom, Sand.

Direction of ~~surface current~~ wind, S. W. force 7.

~~Force~~ Strength of surface current, S. by E. 12 m.

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Nepenthes phyllamphora

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 984.

Date, Aug. 30, 1884.

Locality, Off Chatham

Bearings, Lat. 41° 31' N.

Long. 69° 28' 32" W.

Time of day, 4.07 P.M. of tide: Flood.

State of sky, clear.

Temperature of air, 64.

" surface of water, 63.5

" at depth of 5 fathoms, 63.

" of bottom, 41.5

Depth, in fathoms, 32. = 33.

Nature of bottom, mud and sand

Direction of ~~surface current~~ wind, S. W. Force 6.

Force of surface current, Brisk S. 1/2 W. 4 kn.

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Appendix to Volume 3

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 985.

Date, Sept. 7, 1884.

Locality, Off Block Island Sound 15 miles South.

Bearings. Lat. 41° 00' N.

Long. 71° 49' W.

Time of day, 12.55 P.M.; of tide,

State of sky, Clear, hazy horizon.

Temperature of air, 73°

" surface of water, 66°

" at depth of 5 fathoms, 64°

" of bottom, 50°

Depth, in fathoms, 26.

Nature of bottom, Sand.

Direction of ~~surface current~~ wind, S. W. Force, 3.

~~Force of surface current~~ Drift S. W. by S ½ S, 1¼ m.

Direction of bottom current.

Force of bottom current.

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

Read

985.

REMARKS.

Echinarachnius parma
very many & large.
Leberidis Conifera very many.

Sagitta elegans. very abdt in
Wrings.

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 986.

Date, Sept. 7, 1881.

Locality, 19 miles S. of No Mans Land.

Bearings, Lat. 40° 55' N
Long. 70° 48' W.

Time of day, 2, P.M., ; of tide,

State of sky, Clear.

Temperature of air, 73°

" surface of water, 67°

" at depth of 5 fathoms, 63°

" of bottom, 49°.

Depth, in fathoms, 28.

Nature of bottom, Sand.

Direction of ~~surface current~~ wind, S.W. force, 3.

Force of ~~surface current~~ Draft, S. 1/2 W. 1 mile.

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Sagitta very abdt in wings.

TEMPERATURE RECORD.

Instrument used, Chester Rake Dredge

Current number of observation, 987.

Date, Sept. 7, 1884

Locality, Off No Man's Land

Bearings, Lat. 40° 54' N.
Long. 70° 48' 30" W.

Time of day, 2,28 ; of tide,

State of sky, Clear.

Temperature of air, 73°.

" surface of water, 67°

" at depth of 5 fathoms, 65°.

" of bottom, 49°

Depth, in fathoms, 28.

Nature of bottom, Sand

Direction of ~~surface current~~ wind, S. W. Force 3.

Force of surface current.

Direction of bottom current, Bright S. 1/2 m.

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used. Chester Rocke Bridge

Current number of observation. 988.

Date. Sept. 7. 84.

Locality. Off Normans Land.

Bearings, Lat. 41° 49' 30" N.

Long. 70° 47' W.

Time of day, 3, 30 ; of tide,

State of sky, Clear

Temperature of air, 73°

" surface of water, 67°

" at depth of 5 fathoms, 64°

" of bottom, 49.5°

Depth, in fathoms, 30.

Nature of bottom, Sand

Direction of ~~surface current~~ wind. S. W. force 3

Force of ~~surface current~~ Breeze. S. 1/2 m.

Direction of bottom current.

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

988.

REMARKS.

Not much carried up.

TEMPERATURE RECORD.

Instrument used, Traut.

Current number of observation, 989

Date, Sept. 7, 1881

Locality, E of Nomans Land

Bearings, Lat. 41° 40' 49" N

Long. 70° 47' W

Time of day, 3.57 ; of tide,

State of sky, clear

Temperature of air, 73°

" surface of water, 67°

" at depth of 5 fathoms, 64°

" of bottom, 49.5°

Depth, in fathoms, 30.

Nature of bottom, sand

Direction of surface current, wind S.W. force 3.

Force of surface current, 3/4 mile.

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

989.

REMARKS.

A large head
Echinaracknium parma very abdt
Pecten Lentricostatus very abdt Mytilus
Asterias vulgaris.
Septaria cimpta.
Corymorpha

TEMPERATURE RECORD.

Instrument used, ~~Sigsbee~~ Trask

Current number of observation, 990

Date, Sept. 7, 1881.

Locality, Off Nomans Land

Bearings, Lat. 40° 44' N.

Long. 70° 47' W.

Time of day, 5, 05 P.M.; of tide,

State of sky, clear

Temperature of air, 71, 5°

" surface of water, 66°

" at depth of 5 fathoms, 64°

" of bottom, 47°

Depth, in fathoms, 34.

Nature of bottom, G. Mud Sand.

Direction of ~~surface current~~ wind, Pr. S.W.; force 3.

Force of ~~surface current~~ Light, S 1/2 W. 3/4 mile

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used. Trawl

Current number of observation. 991

Date. Sept. 7. 1881.

Locality. off No man's Land

Bearings. Lat. 40° 39' N
Long. 70° 46' W.

Time of day. 6.05 P.M. of tide.

State of sky. clear

Temperature of air. 70°

" surface of water. 66°

" at depth of 5 fathoms, 64°

" of bottom. 47.5°

Depth, in fathoms. 34.

Nature of bottom. green mud & sand.

Direction of ~~surface~~ wind current. N.E. N. force 3.

Force of ~~surface~~ current. Strong S. 1/4 W. 1/4 mile

Direction of bottom current.

Force of bottom current.

Name of vessel.

To what service attached.

Name and rank of commanding officer.

Name and position of observer.

REMARKS.

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 992.

Date, Sept. 7, 1881.

Locality, Off Nomans Land S.

Bearings, Lat. +0° 33' N

Long. 70° 45' W.

Time of day, 7.35 PM; of tide,

State of sky, clear.

Temperature of air, 69°

" surface of water, 65°

" at depth of 5 fathoms, 63°

" of bottom, 48°

Depth, in fathoms, 36.

Nature of bottom, green mud + o o z e

Direction of surface current, Wind N.N.W. force 2

Force of surface current, Calm 5/8 mile

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

√

TEMPERATURE RECORD.

Instrument used, Trawl.

Current number of observation, 993

Date, Sept. 7, 1884.

Locality, Off Nomans Land.

Bearings, Lat. 40° 28' N.
Long. 70° 44' W.

Time of day, 8.24 PM; of tide,

State of sky, Clear.

Temperature of air, 69°

" surface of water, 65°

" at depth of 5 fathoms, 63°

" of bottom, 46.5°

Depth, in fathoms, 39.

Nature of bottom, mud,

Direction of ~~surface current~~ wind, N. S. W.

Force of surface current, Force, 4.

Direction of bottom current, Drift S. 5/8 mile

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, Negretti

Current number of observation, 994.

Date, Sept. 8. 1881

Locality, Off Block Id.

Bearings, Lat. 39° 40' N.
Long. 71° 30' W.

Time of day, 4, 50 P.M.; of tide.

State of sky, Clear

Temperature of air, 72°

" surface of water, 68°

" at depth of 5 fathoms, 69°

" of bottom, 40,5'

Depth, in fathoms, 36-8.

Nature of bottom, Mud

Direction of ~~surface current~~ wind N. N. W. Force 3.

Force of ~~surface current~~ Sea 6° N. N. W. W. ½ W. 2 kn

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

994 -

REMARKS.

Very large specimen of Allopora?

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 995

Date, Sept. 8, 1881.

Locality, Off Block Id.

Bearings, Lat. 39° 40' 30" N.
Long. 71° 21' W.

Time of day, 6.32 A.M. of tide,

State of sky, Partly Cloudy, Foggy

Temperature of air, 72°

" surface of water, 68°

" at depth of 5 fathoms, 69°

" of bottom, 40.5°

Depth, in fathoms, 358.

Nature of bottom, Yellow mud & sand

Direction of surface current, Variable N. NW. Force 3.

Force of surface current, N. NW. by W. 1/2 W., 1/2 mile

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, Rate Bridge

Current number of observation. 996.

Date, Sept. 8. 1887.

Locality, S.E. of Block Id.

Bearings, Lat. 39° 41′ N.,
Long. 71° 21′ 37″ W.

Time of day, 07.35 ; ~~of tide~~,

State of sky, fair, cloudy.

Temperature of air, 75°

" surface of water, 67.5°

" at depth of 5 fathoms, 65°

" of bottom, 40°

Depth, in fathoms, 346.

Nature of bottom, Yellow mud & sand

Direction of ~~surface current~~ wind N. N. W.

Force of surface current, Force. 3.

Direction of ~~bottom current~~ Aneph- N. W. 18 m.

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, Trask

Current number of observation, 9,957.

Date. Sept. 8, 1887.

Locality, Off Block Id

Bearings, Lat. 39° 42' N.,

Long. 71° 32' W.

Time of day, 9.03 A.M., of tide,

State of sky, Partly cloudy,

Temperature of air, 75°

" surface of water, 67.5°

" at depth of 5 fathoms, 65°

" of bottom, 40°

Depth, in fathoms, 335.

Nature of bottom, Yellow mud

Direction of ~~surface current~~ wind N. E.

Force of surface current, Force 3.

Direction of ~~bottom current~~ Drift N. by W. 1 mile

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 998.

Date, Sept. 8. 1884.

Locality, Off Block Id.

Bearings, Lat. 39° 43' N
Long. 71° 32' W.

Time of day, 10.34 A.M. Local,

State of sky, hazy.

Temperature of air, 74°

" surface of water. 68°

" at depth of 5 fathoms, 63°

" of bottom, 40.

Depth, in fathoms, 302.

Nature of bottom, green mud.

Direction of ~~surface~~ current, ~~under~~ E. N. E.

Force of ~~surface current~~, 4

Direction of bottom current, N. 1/4 W.

Force of bottom current.

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, Rake Dredge

Current number of observation. 999.

Date, Sept. 8. 1867.

Locality. Off Block Isl.

Bearings, Lat. 39° 45' 13" N
Long. 71° 30' W.

Time of day, 11,48 A. ~~of tide~~,

State of sky, hazy.

Temperature of air, 73°

" surface of water, 68°

" at depth of 5 fathoms, 63°

" ~~200 fms of bottom~~, 42°

Depth, in fathoms, 266,

Nature of bottom, green mud,

Direction of ~~surface current~~, wind E. N. E.

Force of ~~surface current~~, force 4,

Direction of bottom current, Prof W. N. W. 3/4 mile

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

1000-1029 "Kookoo" see

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1025

Date, Sept. 8, 1881.

Locality, Off Block Id

Bearings, Lat 39°49' N

Long. 71°25' W.

Time of day, 1.05 PM of tide,

State of sky, Clear

Temperature of air, 71°

" surface of water, 69°

" at depth of 5 fathoms, 68°

" of bottom, 45.

Depth, in fathoms, 216.

Nature of bottom, Green mud

Direction of surface current, Light N. E. by E.

Force of surface current, Force. 4.

Direction of bottom current, North 71 1/4 E. 1 mile

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, Trawl

Current number of observation, 1026.

Date, Sept. 8. 1881.

Locality, Off Block Id.

Bearings, Lat. 39° 50' 30" N

Long. 71° 23' W.

Time of day, 2.55 P.M. of tide,

State of sky, Clear.

Temperature of air, 69°

" surface of water, 69°

" at depth of 5 fathoms, 68°

" of bottom, 47.5

Depth, in fathoms, 182.

Nature of bottom, green mud

Direction of ~~surface current~~ wind E. N. E.

Force of surface current, Force 5.

Direction of ~~bottom current~~ N. by E. 1/2 E.

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, Double Trawl

Current number of observation, 1027.

Date, ~~July~~ 14, 1887

Locality,

Bearings, Lat. 40° 00' 00" N.
Long. 69° 19' W.

Time of day, 7.23 a.m.; of tide,

State of sky, Clear

Temperature of air, 61.

" surface of water, 65

" at depth of 5 fathoms, 66.

" of bottom, 48,5

Depth, in fathoms, 93.

Nature of bottom, fine sand

Direction of ~~surface current~~, and E. N. E. force 3,

Force of ~~surface current~~ Drift, N. 3/4 mile

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1027.

REMARKS.

Almost a water haul. Brought up a few fish and a few invertebrates from bottom. Net covered with large salpae. Wings had a few copepods and large salpae.

TEMPERATURE RECORD.

Instrument used, Double ~~Brass~~ Trough

Current number of observation, 1028

Date, Sept. 14, 1851.

Locality,

Bearings, Lat. 39° 57' N
Long. 69° 17' W.

Time of day, 9.01 a.m.; of tide,

State of sky, Clear

Temperature of air, 66.5

" surface of water, 66.

" at depth of 5 fathoms, 66

" of bottom, 41.

Depth, in fathoms, 410

Nature of bottom, Yellow mud

Direction of ~~surface current~~, wind N. E. force 3.

Force of ~~surface current~~, Drift- N. N. E. 1/2 m.

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

1028.

REMARKS.

This hawl was over an hour coming up, on acct of the engine being unable to reel it in. By the motion of the ship it was allowed to rise and sink by the reel and at times it was towed thro' water to clear it of some of its contents.